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NOTICE OF ALLOWANCE AND FEE(S) DUE

20991

7590

10/07/2008

THE DIRECTV GROUP, INC.
PATENT DOCKET ADMINISTRATION
CA / LA1 / A109
2230 E. IMPERIAL HIGHWAY
EL SEGUNDO, CA 90245

| EXAMINER | | | | |
|-----------------------|--|--|--|--|
| BAYARD, EMMANUEL | | | | |
| ART UNIT PAPER NUMBER | | | | |

2611

DATE MAILED: 10/07/2008

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/693,135 | 10/24/2003 | Ernest C. Chen | PD-201062 | 1783 |

TITLE OF INVENTION: LAYERED MODULATION FOR TERRESTRIAL ATSC APPLICATIONS

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$0 | \$1400 | \$1510 | 01/07/2009 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

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| EL SEGUNDO, | | | | | | | (Depositor's name) |
| | | | - | | | | (Signature) |
| | T | | L | | l | | |
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| 10/693,135 ITLE OF INVENTION | 10/24/2003 : LAYERED MODULA | TION FOR TERRESTR | Ernest C. Chen IAL ATSC APPLICATI | ONS | | PD-201062 | 1783 |
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| nonprovisional | NO | \$1510 | \$0 | \$1400 | | \$1510 | 01/07/2009 |
| EXAM | INER | ART UNIT | CLASS-SUBCLASS | | | | |
| BAYARD, E | MMANUEL | 2611 | 375-269000 | _ | | | |
| Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. | | | (1) the names of up or agents OR, altern (2) the name of a si registered attorney of 2 registered patent a listed, no name will | ngle firm (having as a or agent) and the nam ttorneys or agents. If be printed. | nt attorn n memb nes of u | er a 2 | |
| PLEASE NOTE: Unl recordation as set forth (A) NAME OF ASSIG | less an assignee is identi h in 37 CFR 3.11. Comp GNEE | A TO BE PRINTED ON ' ified below, no assignee bletion of this form is NO categories (will not be pr | data will appear on the T a substitute for filing (B) RESIDENCE: (CI | patent. If an assign an assignment. TY and STATE OR (| COUNT | RY) | ocument has been filed for up entity |
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| | are submitted: To small entity discount p # of Copies | permitted) | b. Payment of Fee(s): (F | d. card. Form PTO-2038 | 3 is atta | ched. | inown above) Ciciency, or credit any a extra copy of this form). |
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| Authorized Signature | | | | Date | | | |
| Typed or printed name | | | | Registration I | No | | |
| his collection of inform n application. Confident ibmitting the completed its form and/or suggesti ox 1450, Alexandria, V lexandria, Virginia 223 | tiality is governed by 35 dapplication form to the tons for reducing this but irginia 22313-1450. DC | FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the ONOT SEND FEES OR | on is required to obtain of 1.14. This collection is depending upon the interest of the Complete Forms of COMPLETED FORMS | or retain a benefit by estimated to take 12 dividual case. Any co icer, U.S. Patent and TO THIS ADDRES: | the publ minutes omment Traden S. SENI | ic which is to file (and to complete, including s on the amount of tin nark Office, U.S. Depa D TO: Commissioner f | by the USPTO to process) g gathering, preparing, and ne you require to complete atment of Commerce, P.O. for Patents, P.O. Box 1450, |

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| | T ADMINISTRATION | 1 | ART UNIT | PAPER NUMBER |
| CA / LA1 / A109 2230 E. IMPERIA EL SEGUNDO, CA | | | 2611 DATE MAILED: 10/07/200 | 8 |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 747 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 747 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

| | Application No. | Annlicent(e) |
|--|---|--|
| | Application No. | Applicant(s) |
| Notice of Allowability | 10/693,135 | CHEN, ERNEST C. |
| Notice of Allowability | Examiner | Art Unit |
| | Emmanuel Bayard | 2611 |
| The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI | (OR REMAINS) CLOSED in this apportant or other appropriate communication GHTS. This application is subject to | plication. If not included will be mailed in due course. THIS |
| 1. This communication is responsive to <u>RCE 9/2/08</u> . | | |
| 2. The allowed claim(s) is/are <u>1-28</u> . | | |
| Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM | been received. been received in Application No cuments have been received in this of this communication to file a reply | national stage application from the |
| THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | | |
| 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give | | |
| 5. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the sheet in the state of the sheet. | on's Patent Drawing Review (PTO- s Amendment / Comment or in the C | Office action of ngs in the front (not the back) of |
| DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT | sit of BIOLOGICAL MATERIAL r | nust be submitted. Note the |
| Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 5/27/08; 6/26/08; 7/17/08; 8/5/08; 8/2/9/2/08; 9/12/08 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material | | (PTO-413), |
| | | |



Application No.

DETAILED ACTION

This is in response to RCE filed on 9/02/08 in which claims 1-28 are pending. The applicant's arguments have been fully considered therefore this case is in condition for allowance.

Allowable Subject Matter

1. The following is an examiner's statement of reasons for allowance: the prior arts of record fail to anticipate or render obvious the following recited features: wherein a layered modulation signal comprises the upper layer signal and the lower layer signal both interfering in a common frequency band such that the at least one receiver demodulates the upper layer signal directly from the layered modulation signal and demodulates the lower layer signal after subtracting the upper layer signal from the layered modulation signal as recited in all the independent claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Emmanuel Bayard whose telephone number is 571 272 3016. The examiner can normally be reached on Monday-Friday (7:Am-4:30PM) Alternate Friday off.

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Art Unit: 2611

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh Fan can be reached on 571 272 3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

10/8/2008

Emmanuel Bayard Primary Examiner Art Unit 2611

/Emmanuel Bayard/ Primary Examiner, Art Unit 2611